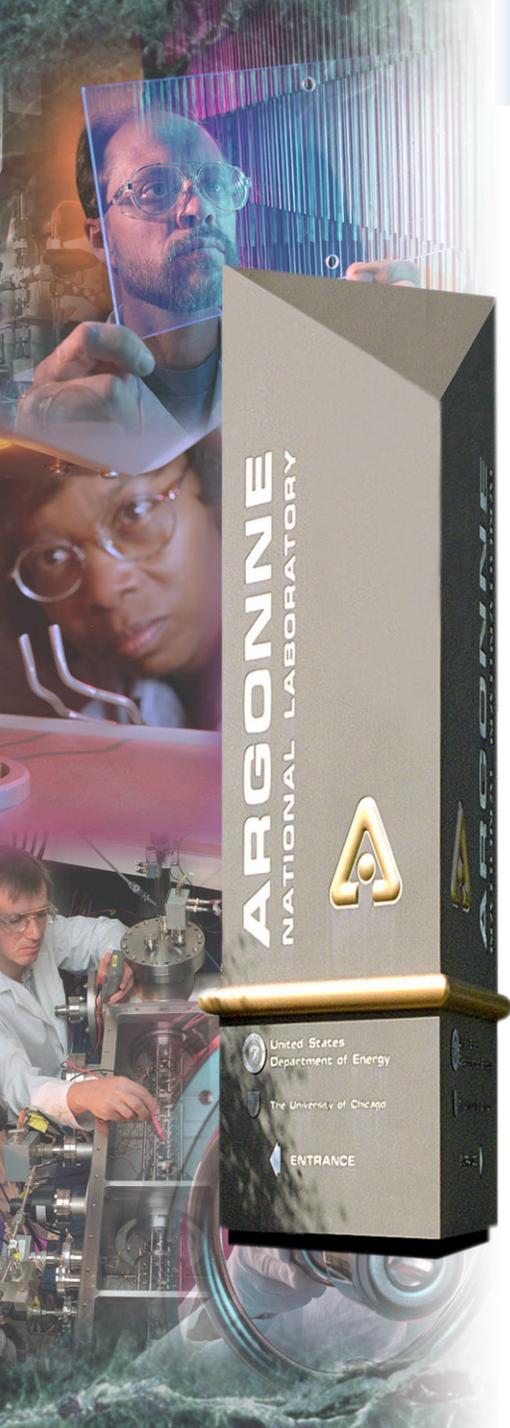


APS/User Operations Monthly Meeting

October 12, 2005

J. Murray Gibson

Introduction



*Argonne National Laboratory is managed by
The University of Chicago for the U.S. Department of Energy*

Outline

- Introduction and Updates – J. M. Gibson
- APS Theory Group
- And theory highlight talk – Michel Van Veenendaal

Budget Updates

- Continuing resolution in effect for FY '06 (began 10/1/2005)
- Situation for FY '06 has become uncertain
 - Conference bill on Energy and Water is possible
 - Omnibus bill is possible
 - Year-long continuing resolution has been discussed
 - Rescission is being mentioned
- APS evaluating project priorities to use capital and ARIM money as it comes in, moving conservatively until budget outlook for '06 is clearer
- FY '07 had looked promising, but clouded by overall Capitol Hill budget concerns
 - User groups chairs meeting at SSRL Users Meeting next week

Hurricane Katrina Victims

- DOE Office of Science has offered support for displaced scientists
 - Prof. Dave Ederrer from Tulane University will work at ANL, supported from several sources including Chemistry and APS
 - Let us know of other user needs

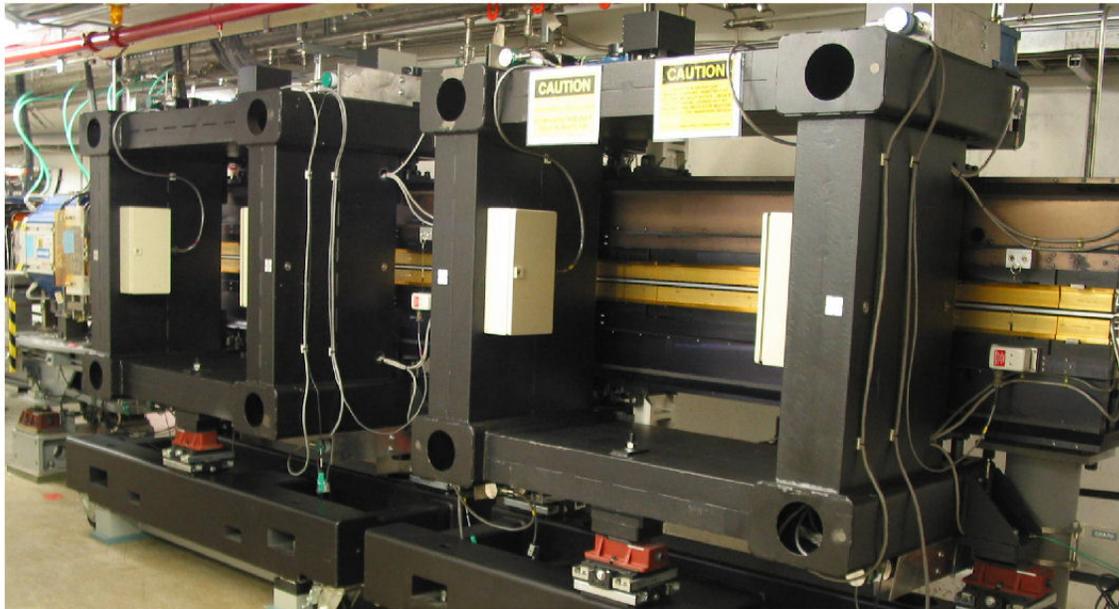
- Annual SRI meeting in Baton Rouge was cancelled in the wake of Katrina
- Displaced Detector Workshop to be hosted at ANL Dec 8th and 9th (contact Denny Mills)

Shutdown report

- New 3.0 cm period ID has been installed at sector 23, GM/CA. The device has been already tested and has shown predicted enhancement and improved capabilities for crystallography experiments.
- BM23 – problem of reversed slow-valve in front-end solved, and validation has been carried out

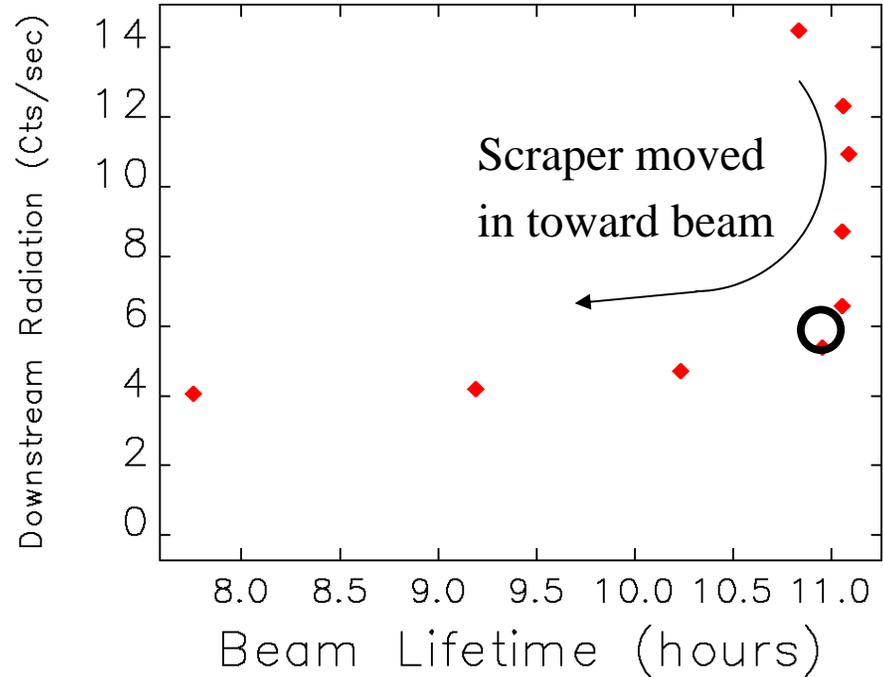
New IDs

- *New 3.0 cm period ID has been installed at sector 23, GM/CA. The device has been already tested and has shown predicted enhancement and improved capabilities for crystallography experiments.*



Sector 37 Beam Scraper

- Simulation and experiments demonstrated that electron-electron scattering in the ring causes radiation damage to ID4¹
- A scraper was installed in sector 37 to test the idea of protecting ID4 by intercepting these scattered electrons²
- A factor of 2.3 improvement was seen with a slight decrease in beam lifetime
- Use during beam operations is under consideration



1. M. Borland and L. Emery, OAG-TN-2004-012.

2 M. Borland, OAG-TN-2005-050.

Cross-Cut Review on Polymer Science

- The Scientific Advisory Committee reviews “cross-cuts” every year:
 - Science with microbeams (2004)
 - Science using the time structure of the beam (2005)

- 2006 Cross-Cut Review to be held January 25th 2006
 - Polymer Science

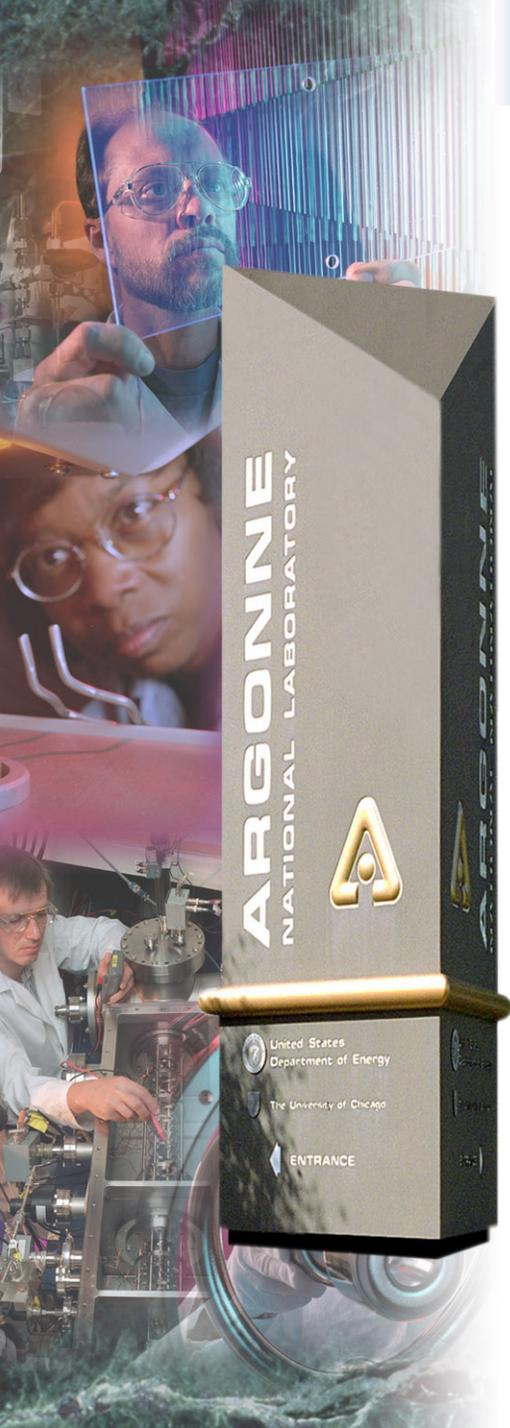
 - Liaison, PAPPANNAN THIYAGARAJAN (Thiyaga) at IPNS
 - 2-3593
 - *thiyaga@anl.gov*

COMCAT (Sector 32) update

- Original model was for external private contractor to operate a service for small businesses
- Contractor AXAS secured in 1999, operated until 2001
- Two RFP's issued after that, no compliant bidders
 - During interim period beamline was used by LS, IMCA and powder groups
- Strategy re-evaluated:
 - Seeking approval for APS to work on building up service model business, at any XOR beamline (IP issue)
 - Dedicating Sector 32 towards full-field imaging as part of APS/XOR tactical plan
 - Maintaining and strengthening State connections, including outreach, e.g. education, virtual access

Homeland Security Presidential Directive-12

What does it mean for APS Users?



ARGONNE
NATIONAL LABORATORY



United States
Department of Energy

The University of Chicago

ENTRANCE



THE UNIVERSITY OF
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What is HSPD-12?

It is a Presidential Directive with the goal of “increasing security and efficiency while reducing fraud and the ability of terrorists to strike the United States.”

It stipulates that issuance of photo ID badges for access to all government facilities (including government-owned, contractor operated) must be based on “sound criteria” for verifying identity.

Implementation must begin by **OCTOBER 27, 2005** and be complete by **OCTOBER 27, 2006**.

Resident Users

Near-term (between now and January 2006)

- No impact; your current APS User badge will be honored for site access for the “foreseeable future.”

Long-term (after January 2006)

- FBI fingerprint checks, DOE background checks (based on a 6-page questionnaire to be completed by user) required before approval to issue an ANL photo ID badge can be obtained.
- Current APS user badges will be exchanged for ANL badges after DOE approval process is complete.
- Rebadging process for resident users and ANL employees will begin in January.
- APS User Office will be location for fingerprinting, questionnaire completion, photographs, and ID verification.

Non-Resident Users

Near-term (between now and January 2006)

- *Current Users:* No impact; your current APS User badge will be honored for site access for the “foreseeable future.”
- *New Users:*
 - No photo-ID APS User badges issued
 - Gate passes (valid through 12-31-05) will be issued.
 - Card keys with badge numbers encoded in Weigand chip, mag stripe, and bar code (no photo) also issued for LOM access, etc.

Long-term (after January 2006)

- Same process as resident users for “frequent” users
- Gate passes for specific visits only for “non-frequent” users
- Potential for electronic check-in to validate need for photo ID badge

APSUO October notes

- Send us your suggestions and ideas: Workshop and workshop chair suggestions for 2006 APS User meeting
 - Send suggestions to **Gene Ice** (icege@ornl.gov)
 - To stimulate new ideas: These were the workshops of the May 2005 meeting...
 - Nanoscale Bio-hybrid Materials
 - Advanced Nanopatterning
 - Scientific Applications of the Hard X-ray Nanoprobe
 - The Art of Collecting Good Diffraction Data
 - Scattering from Liquid Surfaces and Interfaces
 - Metals and Metalloids in Cell Biology
 - Deep X-ray Lithography and LIGA
 - Applications of Grazing-Incidence Small-Angle X-ray Scattering
 - Generation and Use of Short X-ray Pulses at APS

New User Account Specialist

- Please join us in welcoming Deana Kinzler who joined AOD on October 10, 2005, as the APS User Account Specialist. Deana was the original User Account Specialist and is looking forward to providing excellent customer service and reacquainting herself with the APS User community. Deana is located at 401/B4153 and can be reached at 2-1244 or at useracct@aps.anl.gov.

